

Amendments to the Specification:

Replace the paragraph at page 12, line 5 with the following:

On top of the operating system runs database application software 30. In the example, this is Lotus Notes, available from the IBM Corporation. Within the Lotus Notes environment sits a mail database 35, comprising a plurality of mailboxes (two shown) 40, 41. Each mailbox is associated with a particular user. Upon receipt of an email 45 by server 10, the email 45 is then transferred to the mailbox belonging to the user to whom the email is addressed (in this case mailbox ~~140~~ 40).

Replace the paragraph at page 13, line 9 with the following:

The PDA also runs a SAFE application ~~130~~ 131 to receive the trigger message and an operating system 80, which in the preferred embodiment is EPOC from the Symbian Corporation. The operating system includes a mail client 90, with a mail box 40A. The mail box 40A is the PDA user's copy of the mailbox 40 sitting on the server 10. The PDA also includes mail synchronisation software 110 which when activated dials up the server and performs synchronisation, as will be described in more detail below.

Replace the paragraph at page 14, line 10 with the following:

Figure 3a shows in more detail a preferred embodiment of the server-end of Figure 1. The server is split into two components, a mail server 10 and a message server 120. These may be physically on the same machine or on separate machines with an appropriate network link between them. The mail server 10 has already been described with reference to figure 1, however this time the field including a remote device id 39 is also shown for mailbox 40. As previously described, agent 50 is activated upon receipt of an incoming message to mailbox 40, and assuming that remote device id field 39 is not blank, the agent creates and passes, via SAFE ~~130~~ and ~~132~~, a trigger message 60 to the message server 120. The trigger message includes remote device id 39.

Replace the paragraph at page 14, line 25 with the following:

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The message server 120 is responsible for routing a second trigger message 61 across network 100 to the PDA corresponding to the user mailbox (shown in Figure 1). The server 120 also runs a SAFE application ~~130~~ 132.

Replace the paragraph at page 15, line 1 with the following:

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Figure 3b shows the SAFE application in more detail and should be read in conjunction with figure 3a and figures 4 to 6. The SAFE applications 131 and 132 operate in a similar manner as 130. The SAFE 130 application maintains a registry 140, which stores two sets of data, the first relating to devices and the second relating to applications. When an application is executed on a machine running the SAFE application, it registers itself with the application part 146 of the registry. When an application on a machine requests SAFE to deliver a message, the SAFE application first checks whether it recognises the device to which the message is addressed. If not the message is automatically sent to the SAFE application designated "HOME" which in the present embodiment is SAFE 132 running on the message server. The HOME SAFE application essentially provides a centralised routing facility for SAFE messages from the other systems.

Replace the paragraph at page 16, line 26 with the following:

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Agent 50 passes the trigger message 60 including the remote device id to the SAFE application 130, running on the mail server (step 450) and then terminates at step 455. SAFE 130 determines that it is not the device to which the message is addressed and therefore transmits the trigger message 60 to the HOME SAFE application ~~130~~ 132 running on the message server 120 (step 460). Note, the trigger message contains a request to perform mail synchronisation. The HOME SAFE application ~~130~~ 132, looks up the address (ie typically a telephone number) of the device id in the devices portion 145 of the HOME registry 140 (step 470). A timer also runs on the message server (not shown in figure 3a). This is used at step 470 to check when the message server last called the remote computing device. According to the preferred embodiment, if it did so

A6 within a configurable time period, then the message server waits until the expiry of such time period (step 475) before initiating a link at step 480 with the PDA. Note, this setting can be performed in similar fashion to the configuration of the device ID described earlier and in the example the aforementioned time period is 20 minutes.

Replace the paragraph at page 18, line 5 with the following:

A7 In order to initiate the link from the message server 120 to the PDA 70, a second trigger message 161 containing the keyword "SAFE" is transmitted to the SAFE application 430 131, running on the PDA. As described in more detail below, the initial link is then dropped and a second link formed from the PDA back to the message server. This allows a second connection to be formed between the SAFE applications running on both the message server and the PDA. The message server then uses the MQ application to transmit the synchronisation request, via the SAFE application, to the PDA at step 490.

Replace the paragraph at page 19, line 13 with the following:

A8 Also within the operating system sits Comms software 85. When an incoming call from the message server is received responsive to step 480 in figure 4, this establishes a serial data connection between the Comms software and the HOME SAFE application 132. The Comms software is responsible for receiving data over this connection including the second trigger message, which it then passes to Comms Manager 165. Comms Manager identifies the second trigger message by means of the keyword "SAFE" and notifies a SAFE application 430 131, running on the PDA. The call is then dropped and the SAFE application 131 initiates a second call back to the HOME SAFE application 132 on the message server. Because this is an outbound call, the SAFE applications can now set up a TCP/IP link and talk to each other using MQ.

Replace the paragraph at page 20, line 21 and extending to page 22, line 26 with the following:

A9 Once the second connection has been established, the message server 120 sends a synchronisation request to the PDA. This is then passed to Comms Manager which notifies the SAFE application 131, running on the PDA. The SAFE application 430 131

again includes a MQ application and a registry (as shown in figure 3b). The SAFE application verifies, via its registry, whether a Mobile Connect (MC) program 110 is running and if not it launches this program.

Once it is confirmed that the Mobile Client is running or has been launched, the SAFE application notifies the incoming message to EPOC Connect 155, which in turn causes EPOC Connect to pass a command to Mobile Connect prompting it to set up a communications link with the mail server in order to perform mail database synchronisation. Such synchronisation is part of the standard known operation of Mobile Connect and accordingly will not be described further here. Note, EPOC Connect and Comms Manager are essentially part of the overall SAFE application but are platform dependent, and so are separate processes in order to allow the main SAFE application ~~130~~ 131 to retain platform independence.

Figure 6 illustrates the operation of the PDA upon receipt of the second trigger message (corresponding essentially to steps 260-280 in figure 2). According to the preferred embodiment, the message server 120 initiates a call to the PDA 70. FTEI 95 detects an incoming call (not shown) and if this is a data call (as opposed to voice or FAX) it notifies Comms 85 (step 600). Comms then attaches to the call (step 610) and is then responsible for receiving the "SAFE" second trigger message 61 (step 620). The second trigger message is then passed to Comms Manager 165 which identifies the "SAFE" keyword and the call is dropped (step 625). Note, if the second trigger message is not received within a given period of time then the call is also dropped.

The Comms Manager then notifies the SAFE application that the second trigger message has been received (step 630), and SAFE initiates a second call to the message server to establish a second link (step 635). The original synchronisation request 60 from the mail database is then transmitted by the message server to the PDA (this time using the MQ application) over this second link (step 640). The Comms software receives this (step 645) and passes it to Comms Manager (step 650). The message is notified to the SAFE application (step 655) which checks whether Mobile Connect is running using its

A9 registry and if not Mobile Connect is launched. SAFE then passes a command to EPOC Connect at step 660, which prompts it to request Mobile Connect to perform mail database synchronisation at step 665. Mobile Connect sets up a call from the PDA to the server 10 (step 670) and completes the synchronisation process in known fashion (step 680). The overall outcome of this is that the new message that arrived in user mailbox 40 on the mail server has now been transferred to the local copy of the mailbox on PDA 70.

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